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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Kannan Varadhan

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EXAMINER

SHAND, ROBERTA A

ART UNIT

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 09/662,531	Applicant(s) VARADHAN ET AL.	
	Examiner Roberta A. Shand	Art Unit 2416	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 July 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11, 13 and 14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11, 13 and 14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-11, 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Inoue (U.S. 6510153 B1) in view of Rai (U.S. 6421714 B1).

3. Regarding claim 1, Inoue teaches (fig. 12) a method creating a bootstrapping agent (col. 18, lines 59-62) that works cooperatively with a M-IP home agent to allocate a temporary home address (Inoue teaches acquiring a home address for the mobile) to the host that powers up in a foreign network (Inoue teaches that the mobile is turned on in the visited site, col. 16, lines 8-13); using the M-IP protocol to contact the M-IP home agent and request the bootstrapping agent to allocate the temporary home address to the host (col. 16, line 60 – col. 17, line 16) including a permanent home address allocated by a DHCP protocol between the mobile and the home network (fig. 12) when the mobile powers up in the foreign network, thereby allowing the mobile host that powers up in a foreign network to connect to the internet,

4. Although Inoue teaches allocating a dynamic address using DHCP, Inoue does not explicitly teach using the temporary home address to *create a temporary tunnel* between foreign agents associated with the host and the M-IP home agent, wherein the temporary tunnel is used to communicate configuration information including a permanent home address allocated..

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5. Rai teaches (col. 25, line 55 – col. 26, line 16) in a foreign network creating a temporary tunnel for communicating data such as dynamic address allocation. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue to include Rai's tunneling protocol to provide data to the mobile device when it has roamed to the foreign network.

6. Regarding claim 2, Inoue teaches (col. 5, lines 47-59) the foreign agent is co-located with the host.

7. Regarding claim 3, Inoue teaches (fig. 1) the foreign agent is located on a device that is external to the host and resides in the foreign network

8. Regarding claims 4 and 6, as for the bootstrapping agent assigning address from a pool of addresses, it is inherent in Inoue's system that a plurality of addresses are available in dynamic address allocation protocol (abstract).

9. Regarding claim 5, as for the private address taking the form 10*, this is a well known format of address in private network's and It would have been obvious to one of ordinary skill in the art to adapt this to Inoue and Kari's as it is in the art.

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10. Regarding claim 7, Inoue teaches (col. 16, line 60 – col. 17, line 67) a DHCP client located on the host is used to generate messages requesting the configuration information from a DHCP server via the temporary tunnel.

11. Regarding claim 8, as for the messages generated by the DHCP client are modified at the host to have a format consistent (col. 18, lines 59-62) with a DHCP relay, it is inherent in Inoue's system that messages generated by the DHCP client has a consistent format.

12. Regarding claim 9, Inoue teaches (fig. 12) a method for enabling a mobile host without an IP home address to connect to the internet when powering up in a foreign network (Inoue teaches that the mobile is turned on in the visited site, col. 16, lines 8-13), comprising: obtaining a temporary IP home address for the host powering up in a foreign network (col. 18, lines 59-62) without an IP home address from an IP address source accessible through a mobile IP home agent; acquiring configuration parameters including a permanent IP home address from a DHCP server (fig. 4) in the home network of the host;

13. Although Inoue teaches allocating a dynamic address using DHCP, Inoue does not teach establishing a transient tunnel between the mobile IP home agent and a mobile foreign agent associated with the mobile host while the foreign network.

14. Rai teaches (col. 25, line 55 – col. 26, line 16) in a foreign network creating a temporary tunnel for communicating data such as dynamic address allocation. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue to include Rai's tunneling protocol to provide data to the mobile device when it has roamed to the foreign network.

15. Regarding claim 10, Inoue teaches (fig. 12) a method for enabling configuration of a portable host device that powers up in a foreign network to communicate using the internet, comprising: communicating a temporary home address to the host that powers up in a foreign network from bootstrapping agent operating cooperatively with a mobile IP home agent that serves the host device when it operates in the foreign network (col. 18, lines 59-62); and obtaining a permanent address from a DHCP server via the transient bi-directional communication link, wherein the permanent address use thereafter to configure the host to communicate with the internet.

16. Although Inoue teaches allocating a dynamic address using DHCP, Inoue does not teach establishing a transient bi-directional link between the host and the mobile IP home agent using the M-IP protocol and the temporary home address

17. Rai teaches (col. 25, line 55 – col. 26, line 16) in a foreign network creating a temporary tunnel for communicating data such as dynamic address allocation. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue to include Rai's tunneling protocol to provide data to the mobile device when it has roamed to the foreign network.

18. Regarding claim 11, as for additional configuration parameters are provided to the host via the transient bi-directional communication link, Rai teaches setting up tunnel for transmitting data. Tunnels are well known in the art for transmitting a variety of data.

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19 Regarding claim 13, Inoue teaches (fig. 12) a method for configuring a mobile that powers up in a foreign network (Inoue teaches that the mobile is turned on in the visited site, col. 16, lines 8-13), comprising: a M-IP protocol to connect the mobile host that powers up in a foreign network to its home network (col. 18 line 59 - 62) using an IP broadcasting (col. 12, lines 20-28) protocol so that the host can discover an addressing DHCP server in its home network, and using the DHCP protocol to communicate addressing and configuration information between the server and the mobile (col. 1, 1-56).

20. Inoue does not teach setting up a temporary IP tunnel.

21. Rai teaches (col. 25, line 55 – col. 26, line 16) in a foreign network creating a temporary tunnel for communicating data such as dynamic address allocation. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue to include Rai's tunneling protocol to provide data to the mobile device when it has roamed to the foreign network.

22. Regarding claim 14, Inoue teaches (fig. 12) a method for configuring the mobile host when it powers up in a foreign network without an IP home agent address, comprising: obtaining a temporary IP home address for the host from an IP address source accessible through the home server (col. 16, lines 8-67).

23. Inoue does not teach establishing a transient tunnel between the mobile IP home server and a mobile foreign server using the temporary IP home address.

24. Rai teaches (col. 25, line 55 – col. 26, line 16) in a foreign network creating a temporary tunnel for communicating data such as dynamic address allocation. It would have been obvious

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to one of ordinary skill in the art at the time the invention was made to modify Inoue to include Rai's tunneling protocol to provide data to the mobile device when it has roamed to the foreign network.

Response to Arguments

25. Applicant's arguments with respect to claims 1-11, 13 and 14 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

26. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

27. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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28. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberta A Shand whose telephone number is 571-272-3161. The examiner can normally be reached on M-F 9:00am-5:30pm.

29. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Firmin Backer can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

30. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Roberta A. Shand
/R. A. S./
Examiner, Art Unit 2416

/FIRMIN BACKER/
Supervisory Patent Examiner, Art Unit 2416